



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/586,178	06/01/2000	Ilya Umansky	Cisco-34US	5809

27728 7590 03/23/2004

LAW OFFICES OF IMAM
111 N. MARKET STREET, SUITE 1010
SAN JOSE, CA 95113

EXAMINER

RAHIMI, IRAJ A

ART UNIT	PAPER NUMBER
----------	--------------

2622

DATE MAILED: 03/23/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/586,178

Applicant(s)

UMANSKY ET AL.

Examiner

(Iraj) Alan Rahimi

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on June 1, 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 June 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 15 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 15 on page 21 end of line 1, indicates retransmission of the fax information from the second fax machine. The second fax machine is intended to receive fax data. The first fax machine is used for transmitting data.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (US patent 5,881,064) in view of Bloomfield (US patent 6,693,729).

Art Unit: 2622

Regarding claim 1, Lin discloses a fax communication system for communicating fax information between a first fax machine 12 having error correction capability and a second fax machine 20, the first and second fax machines being coupled to communicate with one another across a packet switching network 10, comprising:

a network device 31 coupled to receive fax information from the first fax machine 12 for accumulating a portion of the fax information and for stalling the second fax machine 20 while accumulating said portion until said portion is sent to the second fax machine free of errors across the packet switching network to the second fax machine (column 6, lines 44-56 and column 7, lines 18-37).

Although Lin discloses stalling the fax machine 20 by sending fill codes till the transmission errors are corrected by retransmission, he does not disclose that Node 31 accumulating the error free data prior to transmission to fax 20. Bloomfield discloses in column 18, lines 5-35 that fax interface device 102 performs check sum indicating presence of error or not. If the check sum is not OK, fax server sends "Error Ack" signal to the fax interface device for resending the data. This process is repeated till error free data is received.

Lin and Bloomfield are analogous art because they are from the same field of endeavor that is facsimile communication in a network environment. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to combine the Bloomfield invention with Lin to ensure data transmitted from the fax machine reaches the destination error free.

Art Unit: 2622

Regarding claim 2, Lin discloses a system as recited in claim 1 wherein the fax information is transmitted between the first fax machine and the second fax machine in real-time (column 2, lines 53-67).

Regarding claim 3, Lin discloses a system as recited in claim 1 wherein the stalling signal is in the form of a fax cover page. As thought by Lin, dummy codes are inserted to stall the receiving fax machine till corrected data is transmitted. These dummy codes can take various shapes and an obvious one is a cover page.

Regarding claim 4, Lin discloses a system as recited in claim 1 wherein the stalling signal is a nonfunctional command (column 7, lines 6-17).

Regarding claim 5, Lin discloses a system as recited in claim 1 wherein the stalling signal is invalid data (column 7, lines 6-17).

Regarding claim 6, Lin discloses a system as recited in claim 1 wherein the network device further for the fax information in the form of packets (column 5, lines 7-10).

Regarding claim 7, Lin discloses a system as recited in claim 1 wherein the fax information includes fax pages with each page comprising one or more blocks having one or more frames and further wherein said network device for accumulating one or more frames of a block as said accumulated portion of fax information (column 6, lines 44-56).

Art Unit: 2622

Regarding claim 8, Bloomfield discloses a system as recited in claim 1 wherein the network device is a router (column 4, lines 53-63).

Regarding claim 9, Bloomfield discloses a system as recited in claim 1 wherein the network device further for detecting errors in the accumulated portion of the fax information, for retransmitting said accumulated portion back to the first fax machine, for receiving said accumulated portion, error-free, and for transmitting said error-free portion through the packet switching network to the second fax machine thereby minimizing retransmissions of said portion or any sub-portion thereof of said fax information through the packet switching network to avoid an avalanche effect (column 18, lines 5-35).

Regarding claim 10, Lin discloses a system as recited in claim 1 wherein said network device further includes a digital signal processor 50 for modulating/demodulating the fax information (column 5, lines 22-24).

Regarding claim 11, Lin discloses a system as recited in claim 10 wherein said network device further includes a central processing unit (CPU 65), coupled to the digital signal processor 50, for accumulating the fax information and for forming from the fax information (column 5, lines 22-24).

Regarding claim 12, A system as recited in claim 11 wherein said network device further includes a memory (packet buffer 53) coupled to the central processing unit for

Art Unit: 2622

storing the fax information and software means for reading the stored fax information and for transmitting the fax information through the packet switching network.

Regarding claim 13, Bloomfield discloses a system as recited in claim 1 wherein said network device is responsive to the fax information received from the first fax machine through an interface defined by the TCP/IP protocol (column 4, lines 53-63).

Regarding claim 14, Lin discloses a system as recited in claim 1 wherein said network device is coupled to the first fax machine through a public switching telephone network (column 10, lines 46-54).

Regarding claim 15, Lin discloses a system as recited in claim 1 wherein said network device is coupled, through the packet switching network 10, to a receiving network device 35, coupled to the second fax machine 20, the receiving network device for transmitting the fax information to the second fax machine and upon detection of errors within the fax information, for receiving a retransmission of the fax information from the second fax machine and repeating retransmissions until the fax information is transmitted, error free, to the second fax machine. Refer to argument in claim 1 please.

Regarding claim 16 and 18, arguments analogous to those presented for claim 1, are applicable.

Regarding claim 17, arguments analogous to those presented for claim 9, are applicable.

Art Unit: 2622

Other Prior Art Cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Smith et al. (US patent 5,877,871) discloses a facsimile interface apparatus connected to facsimile terminals and communicating via satellite.

Contact Information


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraj) Alan Rahimi whose telephone number is 703-306-3473. The examiner can normally be reached on Mon.-Fri. 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles can be reached on 703-305-4712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



AR
March 10, 2004


EDWARD COLES
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600